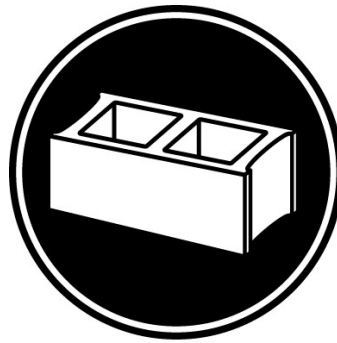




Pallet Tag Program Laboratory Report

Midwest Block & Brick Bridgeton, MO



Project No. 1810-08 PTP

Prepared For:



Prepared By:

J. Lucas Comadoll

J. Lucas Comadoll
Project Testing Technician
AMT Laboratories

October 2018



LABORATORY REPORT

AMT Laboratories • 3741 Greenway Circle • Lawrence, Kansas 66046 • (888) 376-3600

FOR: Chad Haymart, Midwest Block & Brick
cc: Mike Dickey
Jake Boyer, PROSOCO, Inc.
Al Morris, PROSOCO, Inc.

SUBJECT: Midwest Block & Brick
Bridgeton, MO
Pallet Tag Evaluation

DATE: November 26, 2018
PROJECT: 1810-08 PTP

SAMPLES SUBMITTED: 8 CMUs (4 Smooth-face and 4 Split-face)

| Block | Name | Color | Integral Water Repellent | Size |
|---------------------|---------------|----------|--------------------------|--------------------|
| (4) Smooth-face CMU | "Snow" | White | No | 7.5" x 7.5" x 0.5" |
| (4) Smooth-face CMU | "Parchment" | Buff | No | |
| (4) Smooth-face CMU | "Terra Cotta" | Red | No | |
| (4) Smooth-face CMU | "Slate" | Charcoal | No | |
| (4) Split-face CMU | "Snow" | White | No | |
| (4) Split-face CMU | "Parchment" | Buff | No | |
| (4) Split-face CMU | "Terra Cotta" | Red | No | |
| (4) Split-face CMU | "Slate" | Charcoal | No | |

SUBMITTED BY: Chad Haymart
Midwest Block & Brick
12901 St Charles Rock Road
Bridgeton, MO 63044

PURPOSE OF TEST:

- To determine the most appropriate PROSOCO, Inc. new construction cleaner(s) for the submitted CMUs.
- To determine the most appropriate PROSOCO, Inc. water repellent(s) for the submitted CMUs.
- To determine the effectiveness of appropriate PROSOCO, Inc. products in preventing the penetration of, and simplifying the removal of, graffiti staining on the submitted CMUs.

PRODUCTS EVALUATED:

| New Construction Cleaning | Dilution: |
|---|------------------|
| Sure Klean® Custom Masonry Cleaner | 1:4; 1:6 |
| Sure Klean® Light Duty Concrete Cleaner | 1:2; 1:3 |

| Water Repellency | Dilution: |
|--|------------------|
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control 15 | Concentrate |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | Concentrate |
| Sure Klean® Weather Seal Siloxane WB Concentrate | 1:9 |

| Graffiti Resistance | Dilution: |
|--|------------------|
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control 15 | Concentrate |

| Graffiti Removal | Dilution: |
|----------------------------------|------------------|
| Defacer Eraser® Graffiti Remover | Concentrate |
| Enviro Klean® SafStrip® 8 | Concentrate |

TEST METHODS: New Construction Cleaning

Sure Klean® Custom Masonry Cleaner and Sure Klean® Light Duty Concrete Cleaner were evaluated to determine the optimal concentration of cleaner which leaves the external surface looking most like the natural through-body color of the CMU.

Color uniformity was evaluated by comparing aggregate exposure and surface pigment alteration/removal of each cleaned surface compared to the natural through-body color of the CMU.

Aggregate Exposure is the visual examination comparing aggregate exposure of the interior, through-body section of the CMU to surfaces cleaned with selected product(s) at given dilutions.

Surface Pigment Alteration/Removal is the visual examination comparing the pigmentation of the interior, through-body section of the CMU to surfaces cleaned with selected product(s) at given dilutions.

The following is the scale used for reporting results of both categories:

- 0 – **No change** compared to through-body
- 1 – **Slight change** compared to through-body
- 2 – **Moderate change** compared to through-body
- 3 – **Significant change** compared to through-body

NOTE: When cleaning integrally colored CMUs.

Integrally colored concrete masonry units (CMUs) frequently have high amounts of pigments concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one CMU to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of the CMU, the weakly bound pigment will weather and streak, further detracting from the appearance of the completed CMU wall.

In addition to removing excess mortar and construction related soiling, the goal of any cleaning operation undertaken on an integrally colored CMU should include removal of unnaturally high concentrations of surface pigment. By revealing the natural through-body color on the integrally colored unit, the overall color uniformity and weathering resistance of the completed CMU wall is improved.

Cleaning Procedure:

1. Pre-wet the surface and apply diluted cleaning solution according to PROSOCO, Inc. Product Guide instructions.
2. Allow for an appropriate dwell time:
Custom Masonry Cleaner5 minutes
Light Duty Concrete Cleaner5 minutes
3. Reapply cleaning solution; do not let cleaner dry into masonry.
4. Rinse thoroughly with plenty of fresh water.*
5. Allow the sample to dry for at least 18 hours and visually examine.
6. Break the sample and compare the through-body surfaces to the cleaned surfaces for the best match.

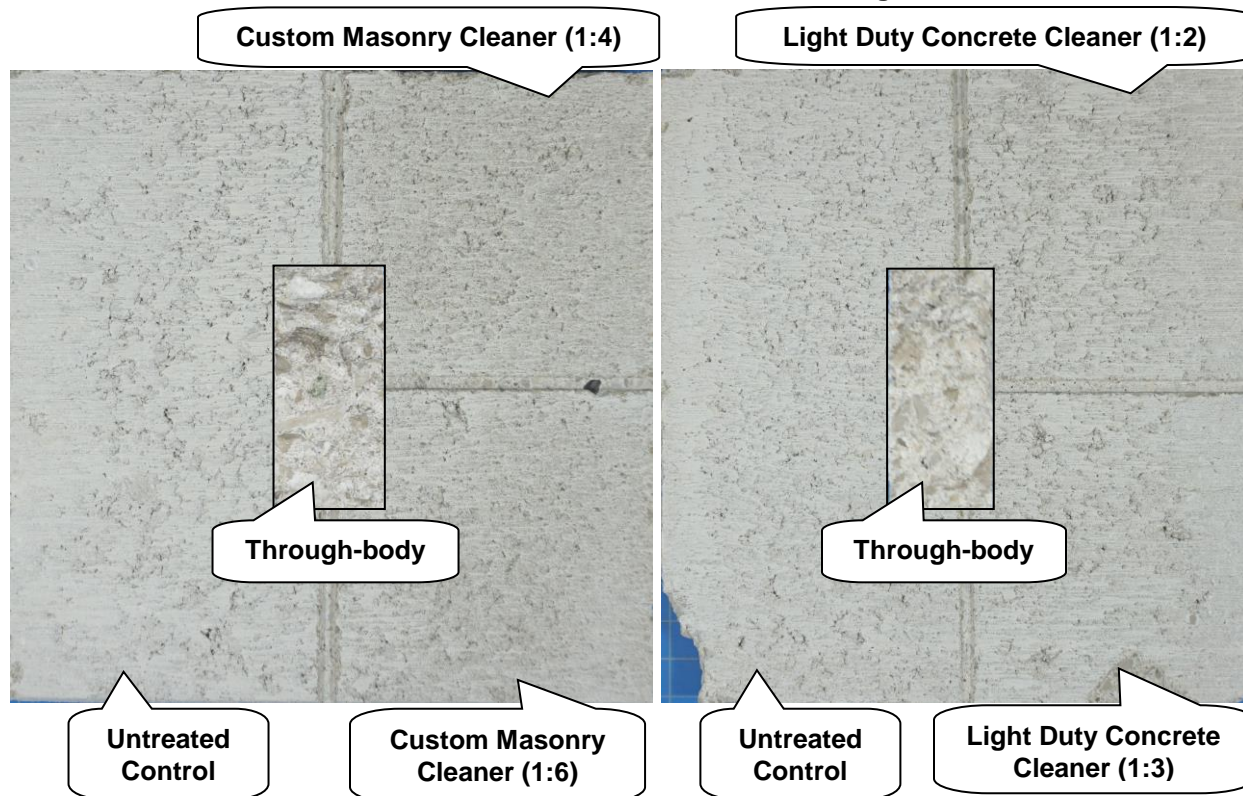
***Rinsing Equipment** – Masonry washing equipment generating approximately 700-800 psi with a water flow rate of 8 gallons per minute delivered through a 45 degree fan spray tip was used for rinsing.

TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity

| |
|--|
| Scale used for reporting results of both categories: |
| 0 – No change compared to through-body |
| 1 – Slight change compared to through-body |
| 2 – Moderate change compared to through-body |
| 3 – Significant change compared to through-body |

| Substrate: Smooth-face CMU | Name: "Snow" | | |
|-----------------------------------|---------------------|--------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:4 | 1 | 1 |
| Custom Masonry Cleaner | 1:6 | 1 | 1 |
| Light Duty Concrete Cleaner | 1:2 | 0 | 0 |
| Light Duty Concrete Cleaner | 1:3 | 0 | 0 |

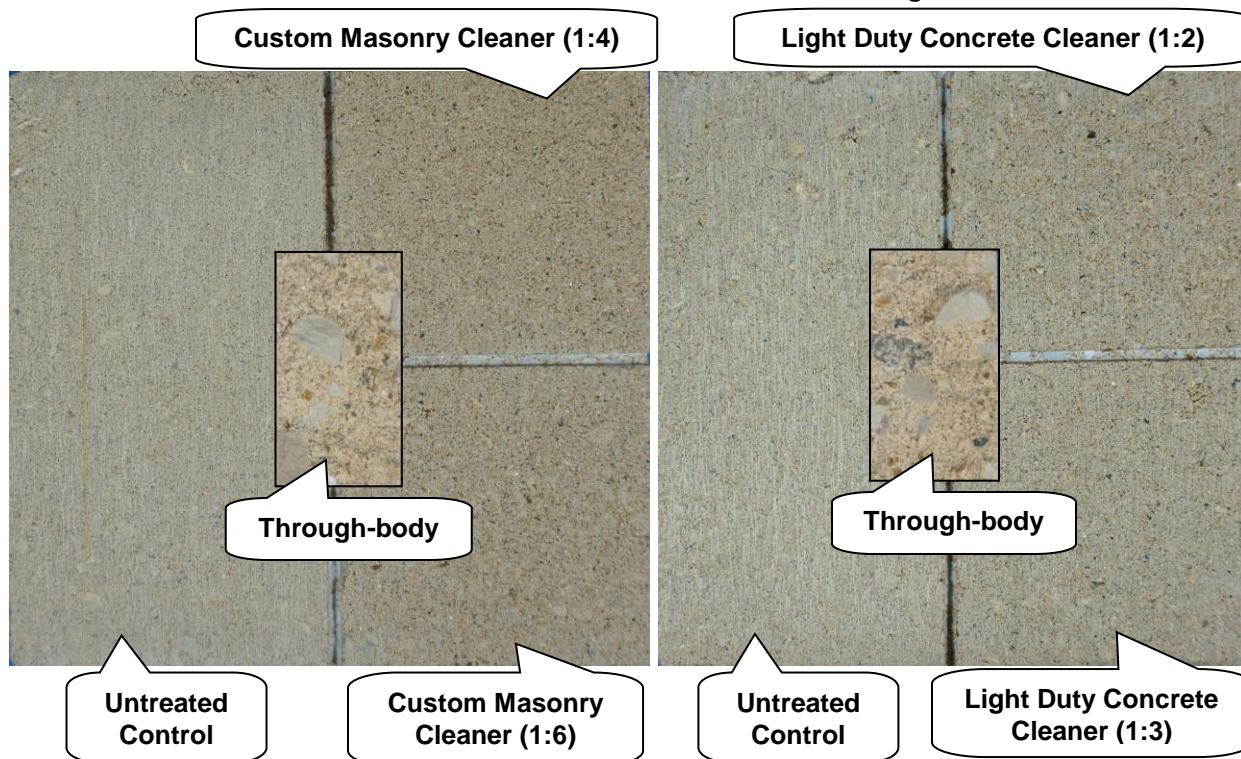
Smooth-face "Snow" CMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)

| Substrate: Smooth-face CMU | | Name: "Parchment" | |
|-----------------------------------|----------|--------------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:4 | 2 | 2 |
| Custom Masonry Cleaner | 1:6 | 2 | 2 |
| Light Duty Concrete Cleaner | 1:2 | 1 | 1 |
| Light Duty Concrete Cleaner | 1:3 | 1 | 1 |

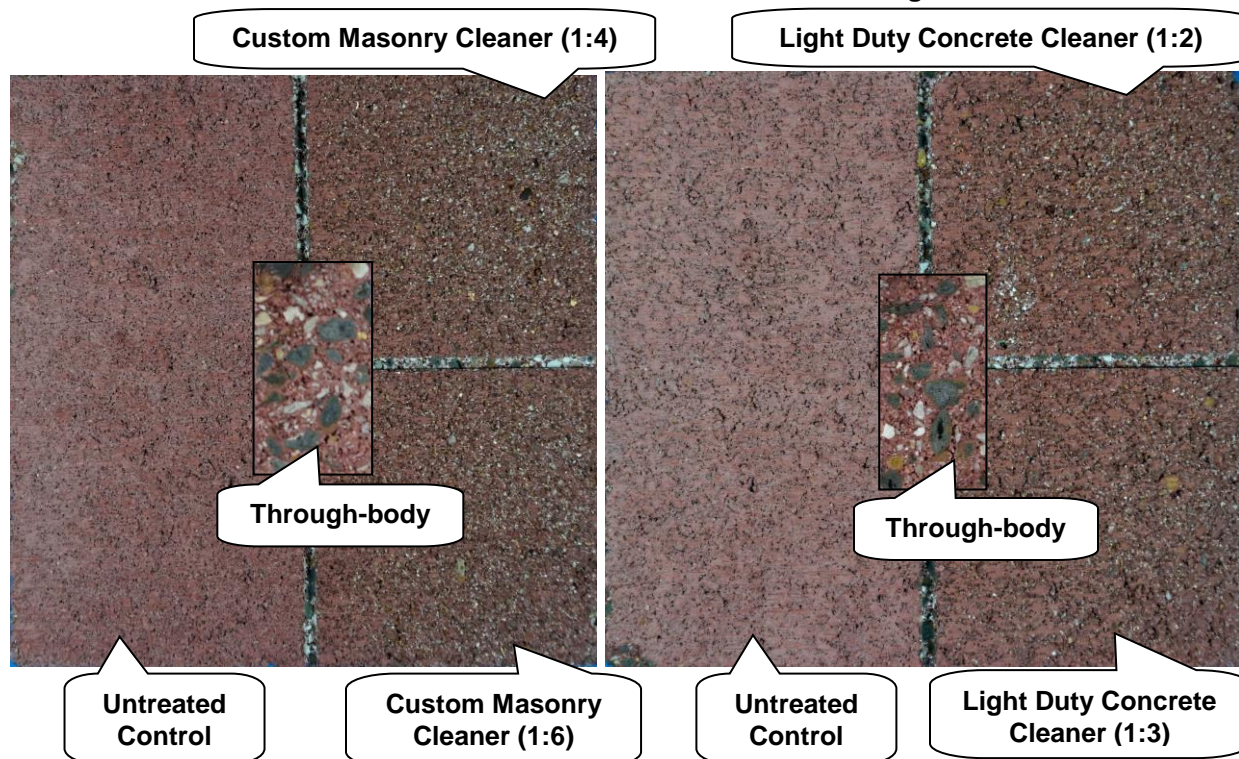
Smooth-face "Parchment" CMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)

| Substrate: Smooth-face CMU | | Name: "Terra Cotta" | |
|-----------------------------------|----------|----------------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:4 | 3 | 3 |
| Custom Masonry Cleaner | 1:6 | 3 | 3 |
| Light Duty Concrete Cleaner | 1:2 | 2 | 2 |
| Light Duty Concrete Cleaner | 1:3 | 2 | 2 |

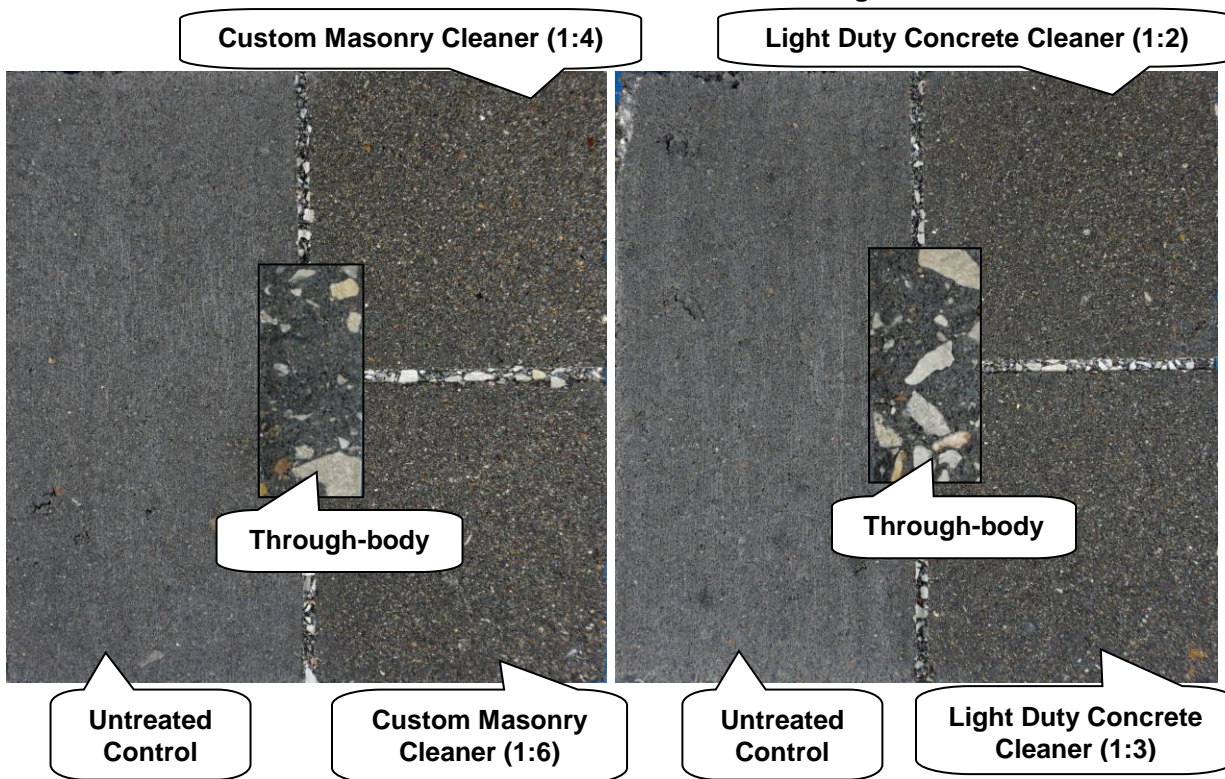
Smooth-face "Terra Cotta" CMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)

| Substrate: Smooth-face CMU | | Name: "Slate" | |
|-----------------------------------|----------|----------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:4 | 2 | 2 |
| Custom Masonry Cleaner | 1:6 | 2 | 2 |
| Light Duty Concrete Cleaner | 1:2 | 1 | 1 |
| Light Duty Concrete Cleaner | 1:3 | 1 | 1 |

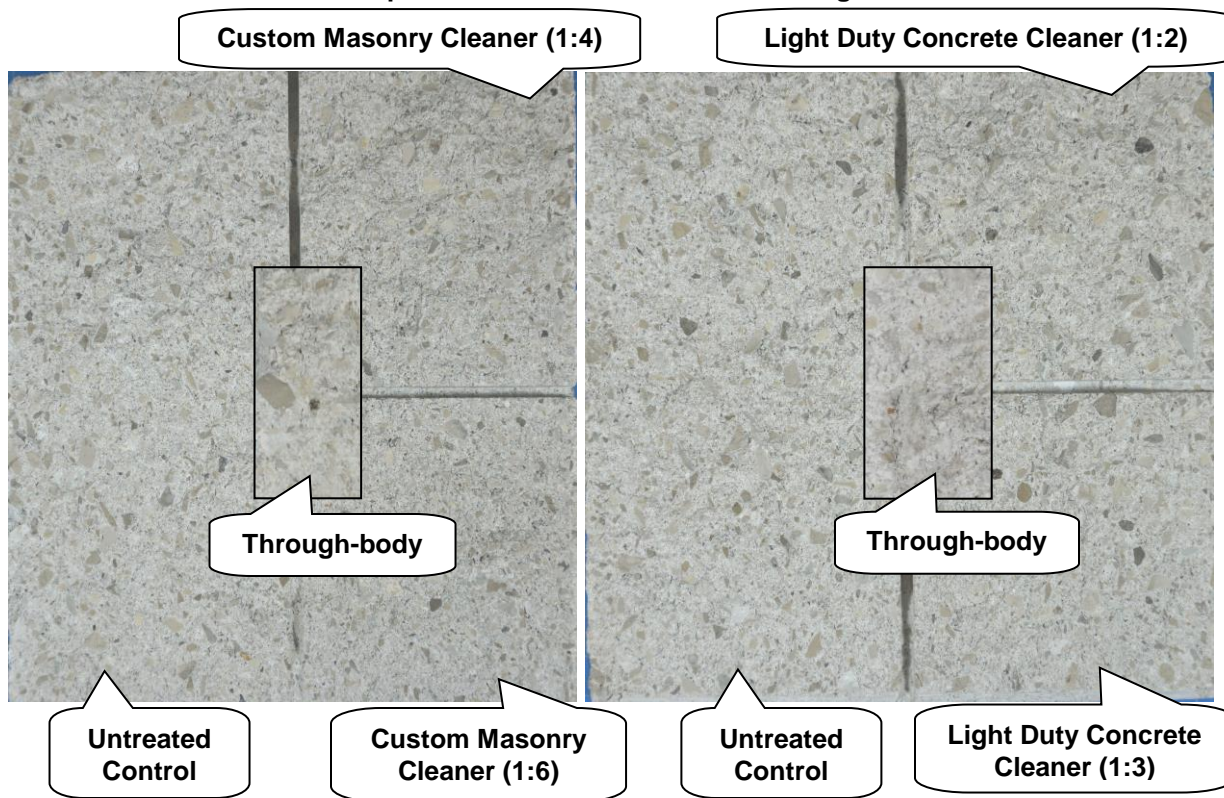
Smooth-face "Slate" CMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)

| Substrate: Split-face CMU | | Name: "Snow" | |
|----------------------------------|----------|---------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:4 | 1 | 1 |
| Custom Masonry Cleaner | 1:6 | 1 | 1 |
| Light Duty Concrete Cleaner | 1:2 | 0 | 0 |
| Light Duty Concrete Cleaner | 1:3 | 0 | 0 |

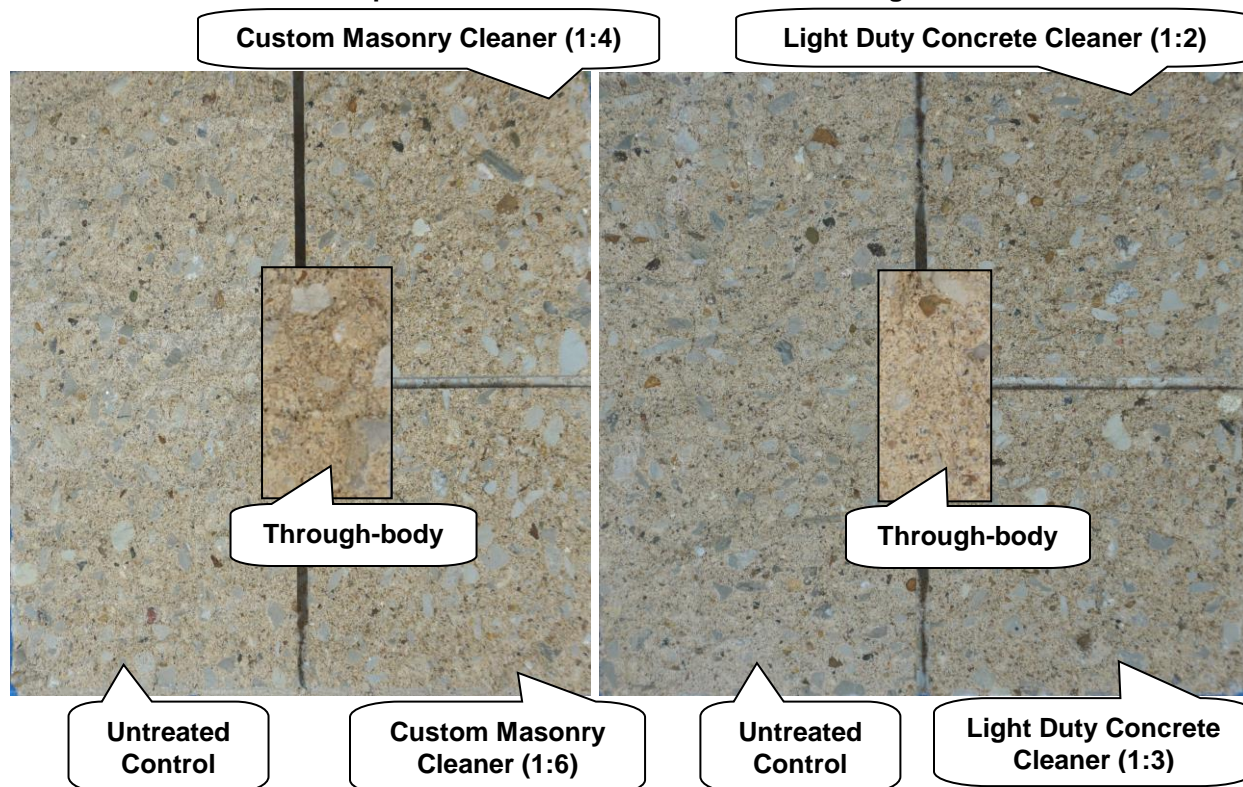
Split-face "Snow" CMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)

| Substrate: Split-face CMU | | Name: "Parchment" | |
|----------------------------------|----------|--------------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:4 | 1 | 1 |
| Custom Masonry Cleaner | 1:6 | 1 | 1 |
| Light Duty Concrete Cleaner | 1:2 | 1 (very slight) | 1 (very slight) |
| Light Duty Concrete Cleaner | 1:3 | 1 (very slight) | 1 (very slight) |

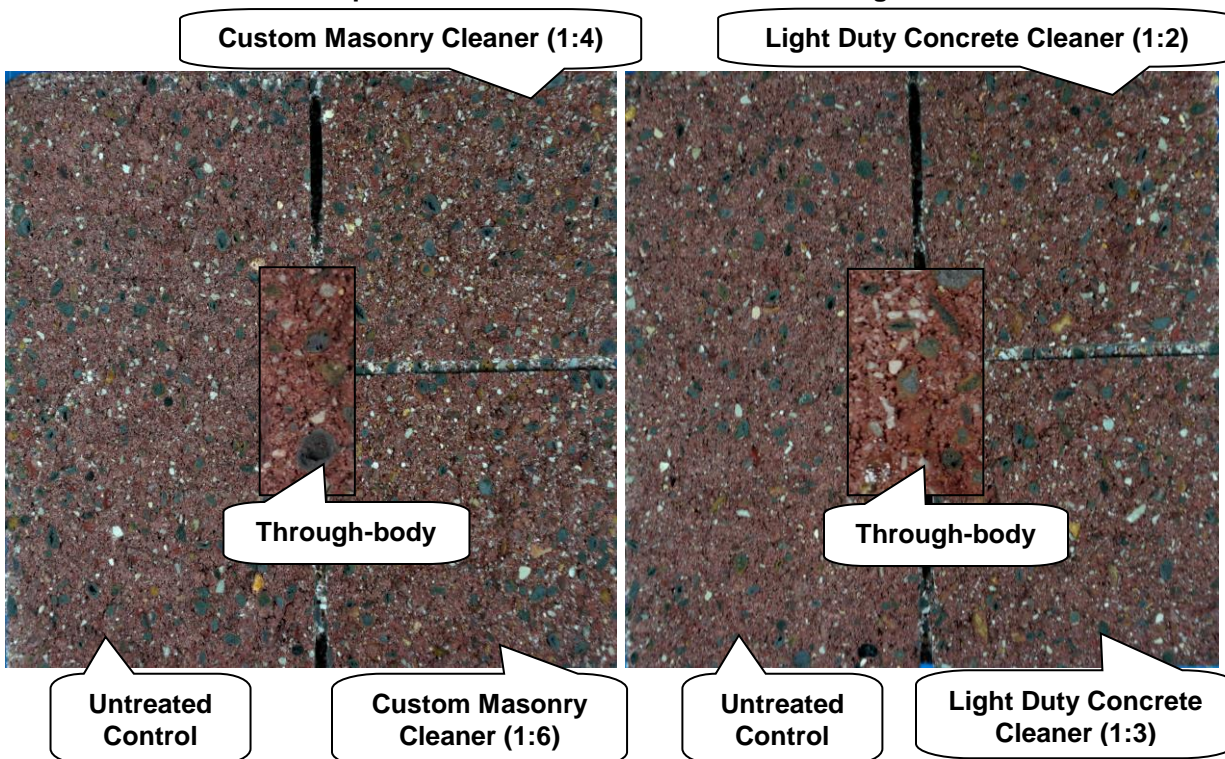
Split-face "Parchment" CMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)

| Substrate: Split-face CMU | | Name: "Terra Cotta" | |
|----------------------------------|----------|----------------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:4 | 2 | 2 |
| Custom Masonry Cleaner | 1:6 | 2 | 2 |
| Light Duty Concrete Cleaner | 1:2 | 1 | 1 |
| Light Duty Concrete Cleaner | 1:3 | 1 | 1 |

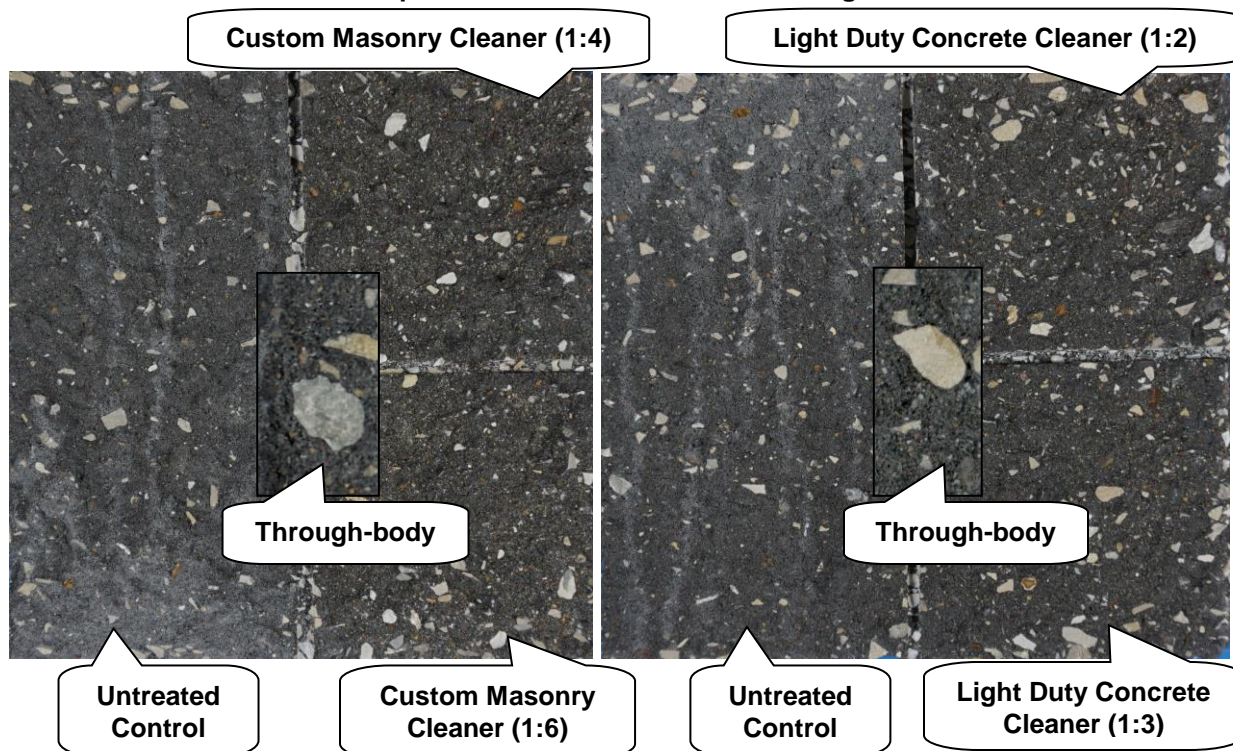
Split-face "Terra Cotta" CMU After Cleaning



TEST RESULTS AND PHOTOGRAPHS: New Construction Cleaning / Color Uniformity (cont.)

| Substrate: Split-face CMU | | Name: "Slate" | |
|----------------------------------|----------|----------------------|------------------------------------|
| Product | Dilution | Aggregate Exposure | Surface Pigment Alteration/Removal |
| Custom Masonry Cleaner | 1:4 | 2 | 2 |
| Custom Masonry Cleaner | 1:6 | 2 | 2 |
| Light Duty Concrete Cleaner | 1:2 | 1 | 1 |
| Light Duty Concrete Cleaner | 1:3 | 1 | 1 |

Split-face "Slate" CMU After Cleaning



CONCLUSIONS – New Construction Cleaning

In most of the cleaning tests conducted, both dilutions of Sure Klean® Custom Masonry Cleaner removed a slight to moderate amount of surface pigment, exposing a slight to moderate amount of aggregate. Both dilutions of Sure Klean® Light Duty Concrete Cleaner removed zero to slight amounts of the surface pigment, exposing zero to slight amounts of aggregate.

Sure Klean® Light Duty Concrete Cleaner provided the best match to the through-body color of the CMU.

When choosing the most appropriate product for the desired result, use Sure Klean® Light Duty Concrete Cleaner when minimal aggregate exposure is desired and Sure Klean® Custom Masonry Cleaner when additional aggregate exposure is desired.

Use higher concentrations and surface agitation to maximize aggregate exposure. Use low concentration and surface agitation to minimize aggregate exposure.

NOTE: When cleaning integrally colored CMUs.

Integrally colored concrete masonry units (CMUs) frequently have high amounts of pigments concentrated on the surface of the cured concrete unit. Variation of surface pigment concentrations from one CMU to the next creates a blotchy appearance in the completed wall. Allowed to remain on the surface of the CMU, the weakly bound pigment will weather and streak, further detracting from the appearance of the completed CMU wall.

In addition to removing excess mortar and construction related soiling, the goal of any cleaning operation undertaken on an integrally colored CMU should include removal of unnaturally high concentrations of surface pigment. By revealing the natural through-body color on the integrally colored unit, the overall color uniformity and weathering resistance of the completed CMU wall is improved.

RECOMMENDATIONS: New Construction Cleaning

Recommendations for cleaning for each type of CMU submitted by Midwest Block & Brick, Bridgeton, MO are provided in the chart below. Recommendations are based on the cleaner and dilution that provided the best match to the through-body.

| Sample | New Construction Cleaning |
|-------------------------------|---|
| Smooth-face "Snow" CMU | ² Sure Klean® Custom Masonry Cleaner (1:4) or (1:6) OR ¹ Sure Klean® Light Duty Concrete Cleaner (1:2) or (1:3) |
| Smooth-face "Parchment" CMU | |
| Smooth-face "Terra Cotta" CMU | |
| Smooth-face "Slate" CMU | |
| Split-face "Snow" CMU | |
| Split-face "Parchment" CMU | |
| Split-face "Terra Cotta" CMU | |
| Split-face "Slate" CMU | |

NOTE: "1" indicates the most appropriate cleaner and "2" indicates the second most appropriate cleaner.

The most appropriate cleaner and dilution should be determined on the specific job-site, and will be dependent primarily on the nature and severity of soiling present at that location.

Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. On-site testing should be conducted to determine the most appropriate cleaning product and procedures for a particular project. See product literature for additional application and product information.

SAMPLE PREPARATION: Treatment Application

Prior to treatment application, the submitted smooth-face CMUs were cleaned with Sure Klean® Light Duty Concrete Cleaner diluted with two parts water in accordance with the current PROSOCO, Inc. Product Data Sheet instructions. The submitted split-face CMUs were cleaned with Sure Klean® Custom Masonry Cleaner diluted with four parts water in accordance with the current PROSOCO, Inc. Product Data Sheet instructions. After the samples were allowed to dry for at least 24 hours, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control 15, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II, and Sure Klean® Weather Seal Siloxane WB Concentrate diluted with nine parts water were applied in a brushing application in accordance with the current PROSOCO, Inc. Product Data Sheet instructions. The treatments were allowed to cure for at least 72 hours prior to testing.

TEST METHODS: Protective Water Repellents

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

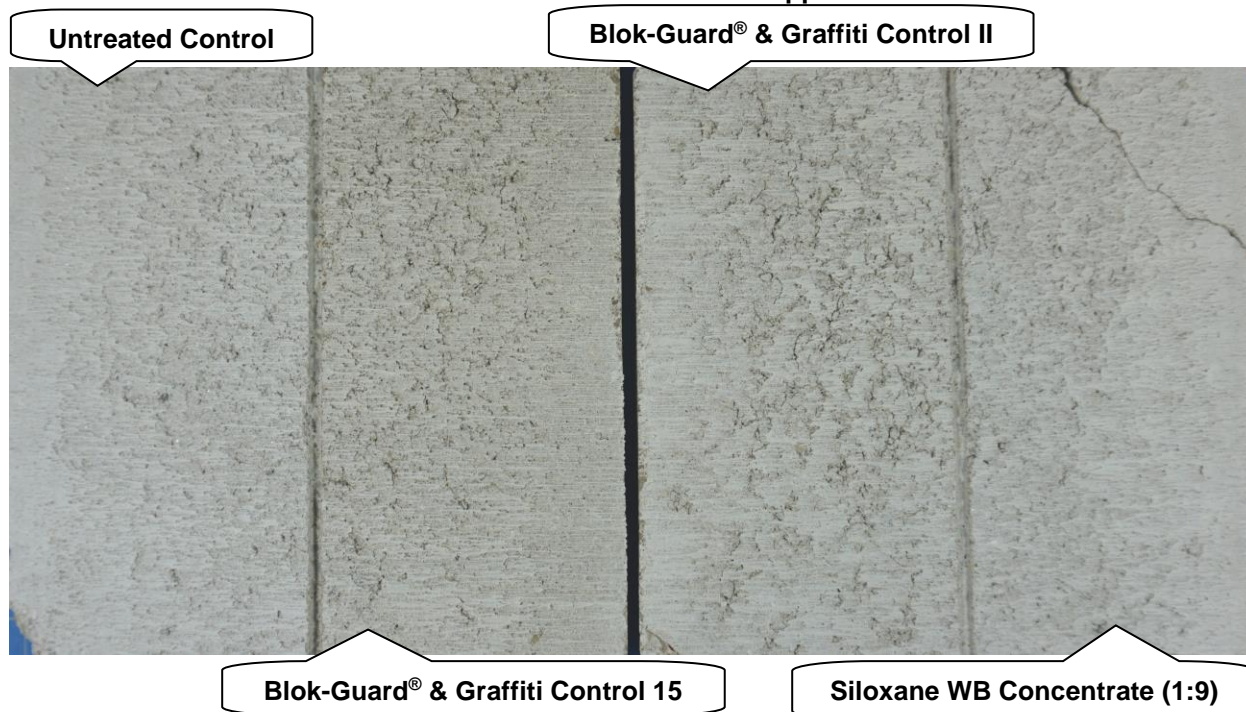
The water absorption tube test simulating wind driven rain conditions was performed. This test simulates 60 mile per hour wind driven rain conditions for a period of 20 minutes.

TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

| Smooth-face "Snow" CMU | |
|--|--------|
| Untreated Control | 59 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 | 60 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | 60 mph |
| Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) | 59 mph |

Smooth-face "Snow" CMU After Application

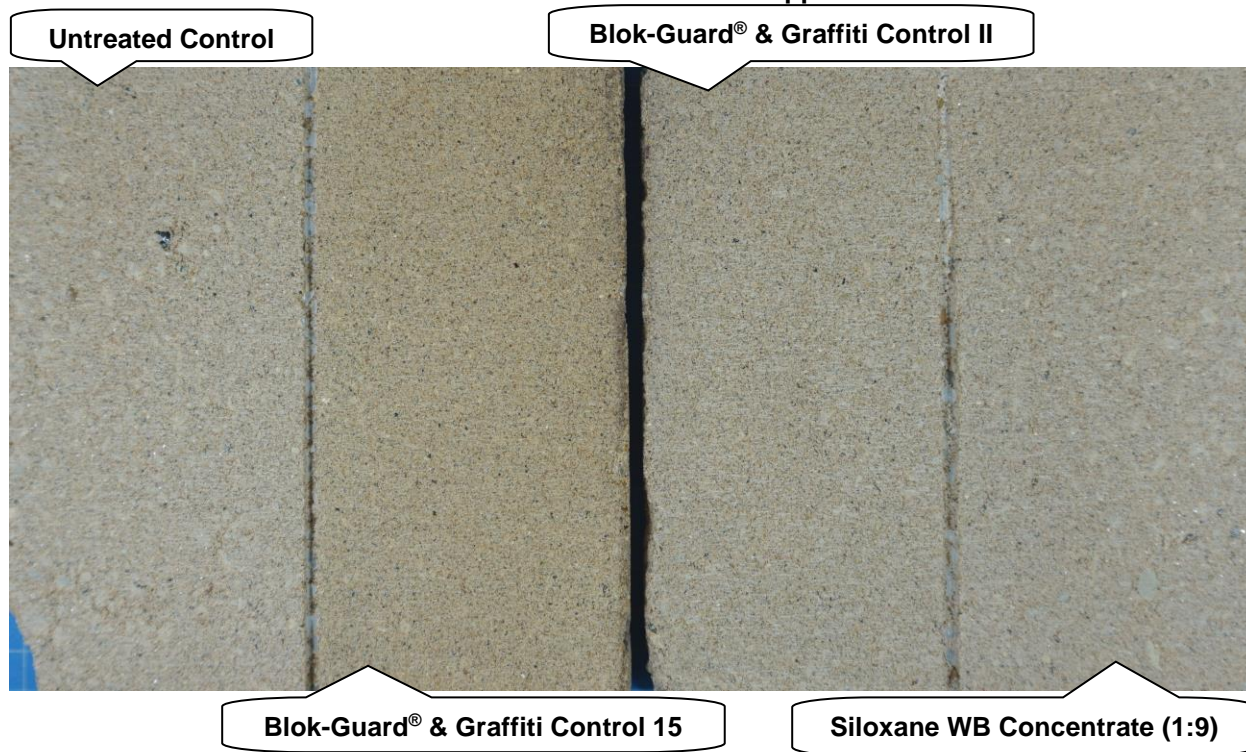


TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

| Smooth-face "Parchment" CMU | |
|--|--------|
| Untreated Control | 49 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 | 60 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | 60 mph |
| Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) | 60 mph |

Smooth-face "Parchment" After Application

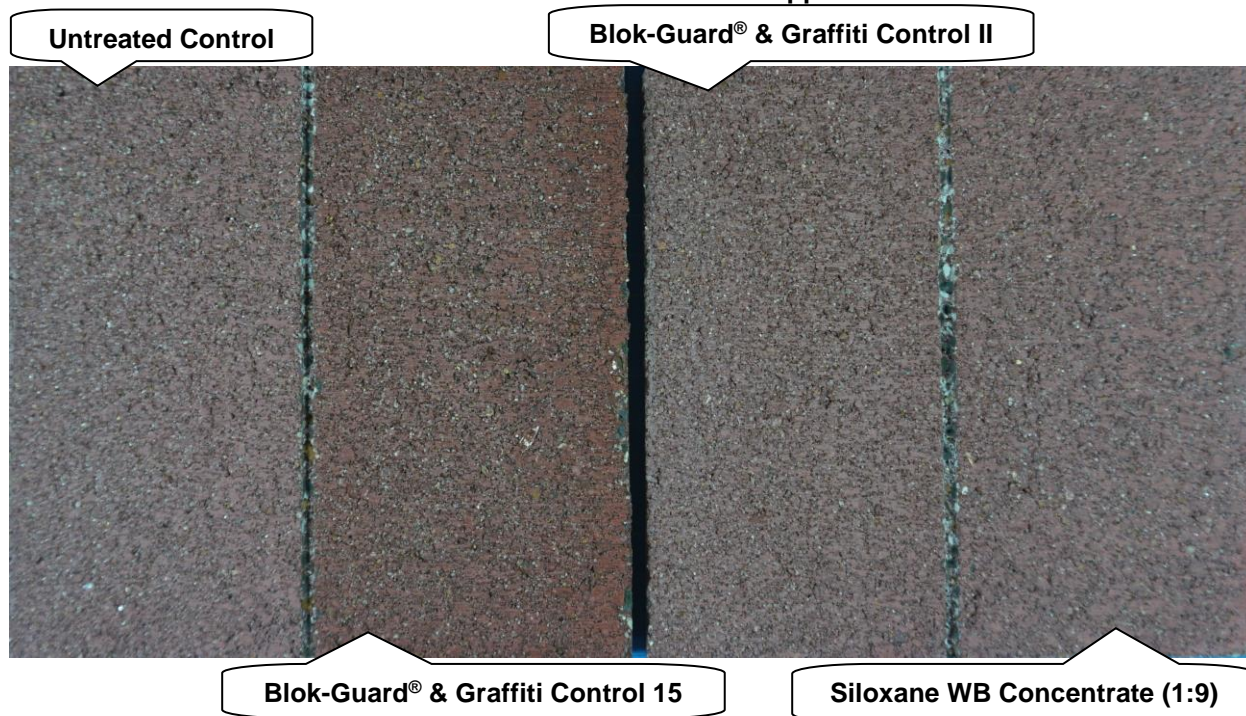


TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

| Smooth-face "Terra Cotta" CMU | |
|--|---------|
| Untreated Control | <40 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 | 60 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | 52 mph |
| Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) | 50 mph |

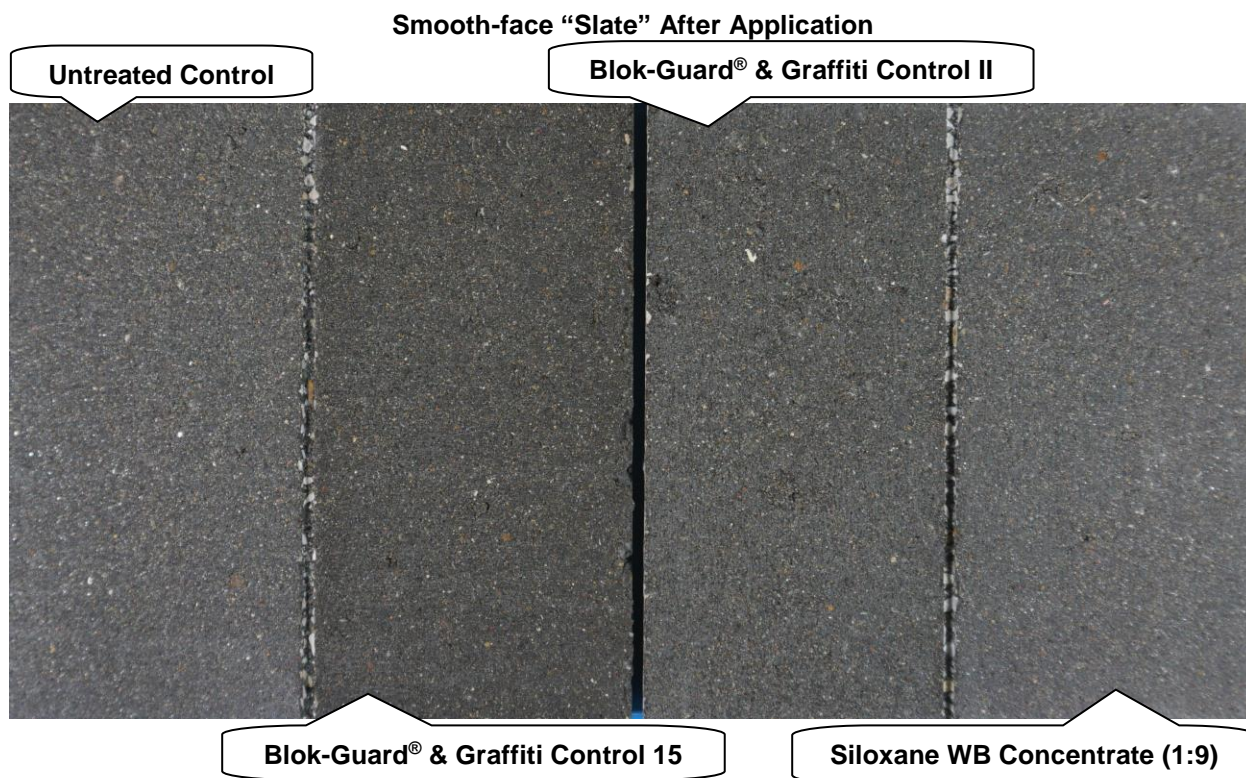
Smooth-face "Terra Cotta" After Application



TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

| Smooth-face "Slate" CMU | |
|--|--------|
| Untreated Control | 59 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 | 60 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | 60 mph |
| Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) | 60 mph |

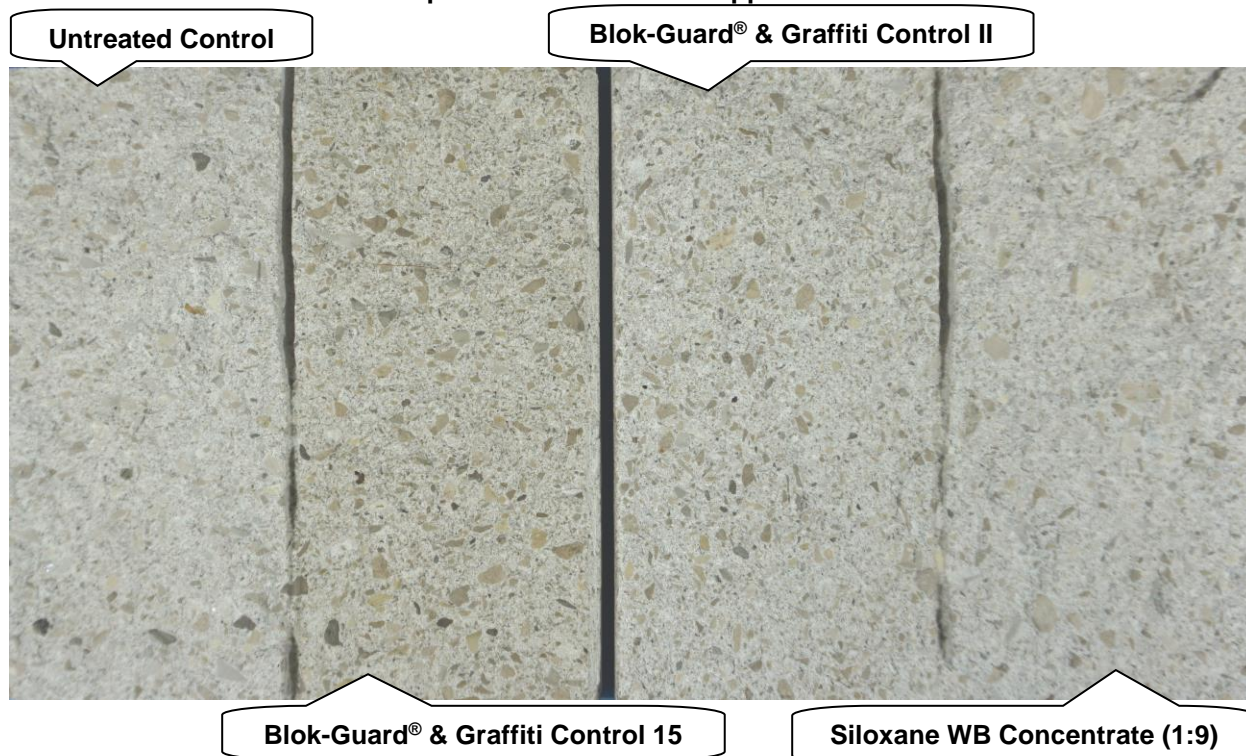


TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

| Split-face "Snow" CMU | |
|--|--------|
| Untreated Control | 55 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 | 60 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | 59 mph |
| Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) | 60 mph |

Split-face "Snow" After Application

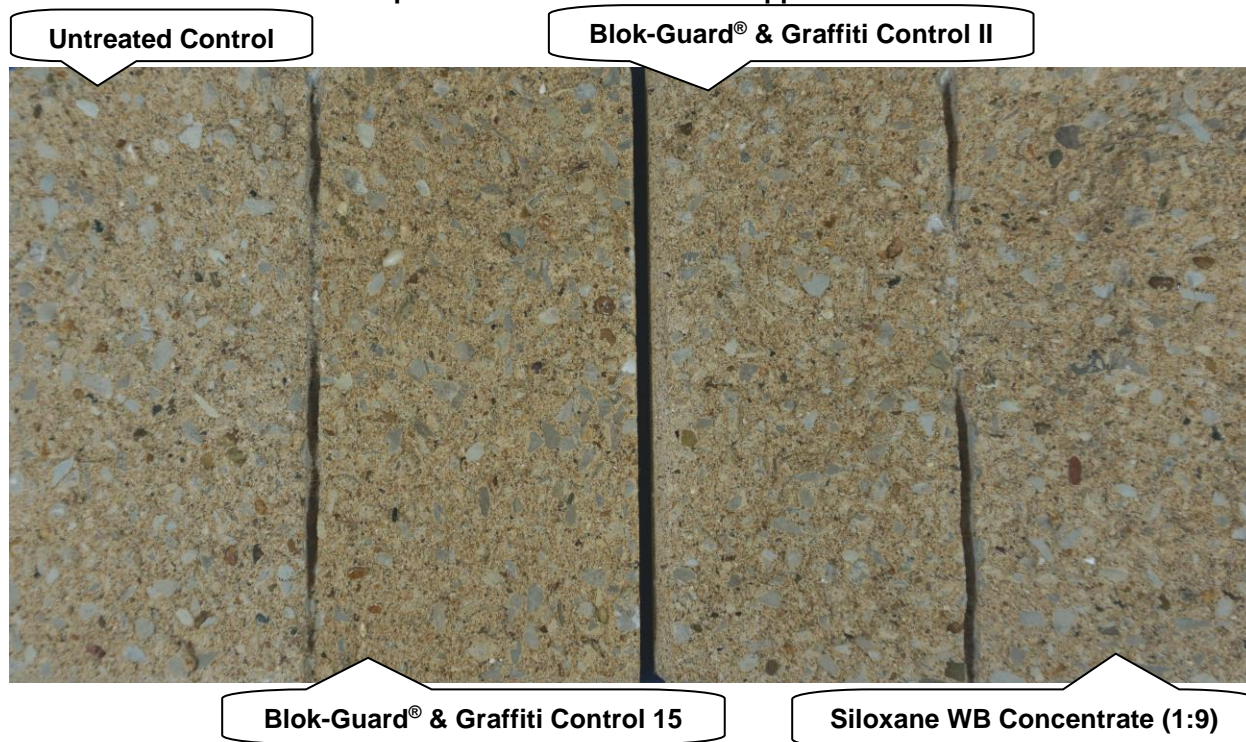


TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

| Split-face "Parchment" CMU | |
|--|---------|
| Untreated Control | <40 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 | 60 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | 60 mph |
| Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) | 60 mph |

Split-face "Parchment" After Application

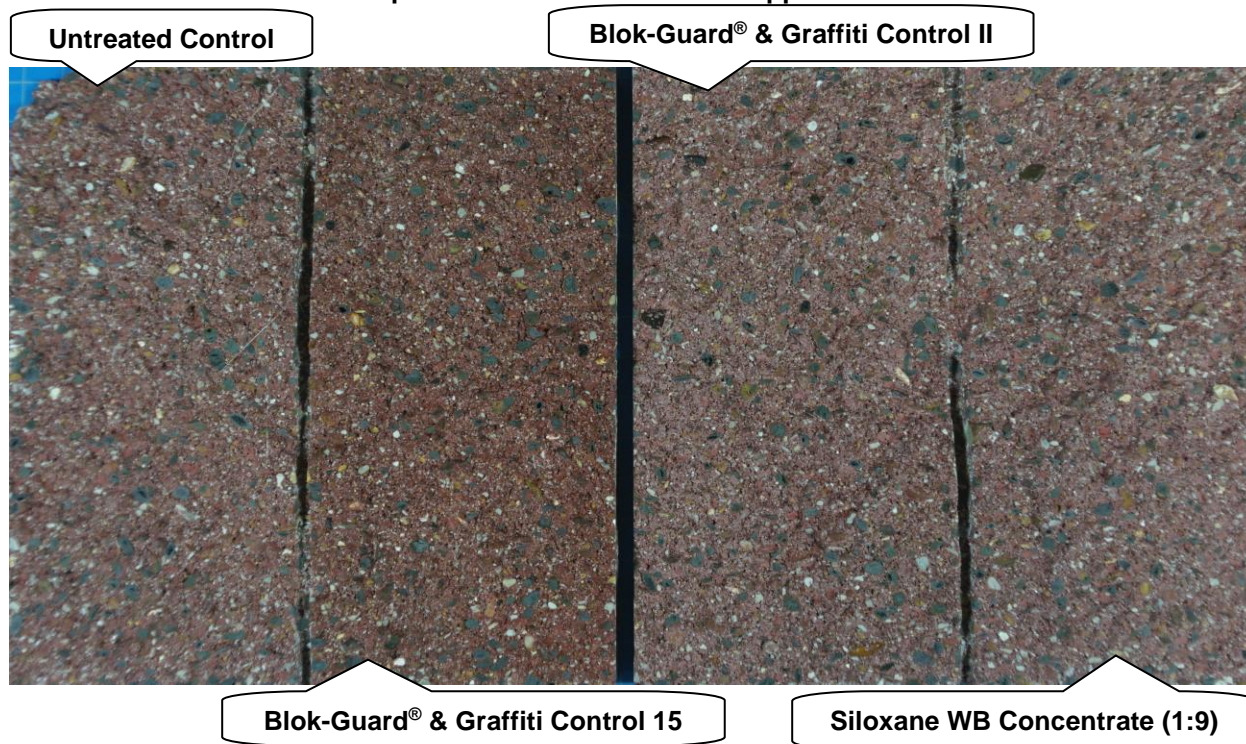


TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

| Split-face "Terra Cotta" CMU | |
|--|---------|
| Untreated Control | <40 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 | 60 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | 60 mph |
| Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) | 59 mph |

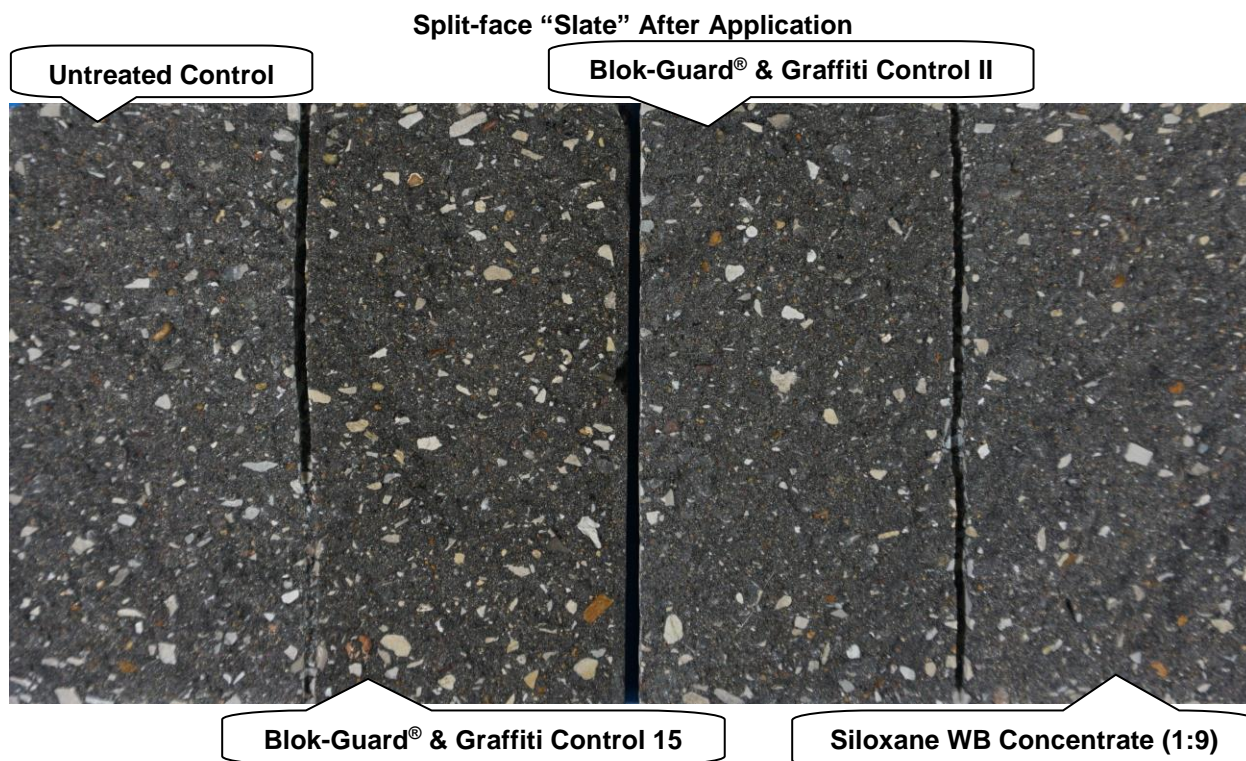
Split-face "Terra Cotta" After Application



TEST RESULTS AND PHOTOGRAPHS: Protective Water Repellents (cont.)

Water Absorption Tube Test: RILEM II.4, 60 mph, 20 Minutes

| Split-face "Slate" CMU | |
|--|--------|
| Untreated Control | 54 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 | 60 mph |
| Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II | 56 mph |
| Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) | 60 mph |



CONCLUSIONS: Protective Water Repellents

Based on the laboratory evaluations, all of the treatments provided good water repellent protection to the submitted CMUs.

Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 provided a moderate color enhancement to each CMU. Neither Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II nor Sure Klean® Weather Seal Siloxane WB Concentrate diluted with nine parts water caused any change in appearance to the submitted CMUs.

RECOMMENDATIONS: Water Repellency

Recommendations for water repellency for each type of CMU submitted by Midwest Block & Brick, Bridgeton, MO are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective.

| Sample | Water Repellent |
|-------------------------------|---|
| Smooth-face "Snow" CMU | ¹ Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 OR ² Sure Klean® Weather Seal Blok-Guard® & Graffiti Control II OR ² Sure Klean® Weather Seal Siloxane WB Concentrate (1:9) |
| Smooth-face "Parchment" CMU | |
| Smooth-face "Terra Cotta" CMU | |
| Smooth-face "Slate" CMU | |
| Split-face "Snow" CMU | |
| Split-face "Parchment" CMU | |
| Split-face "Terra Cotta" CMU | |
| Split-face "Slate" CMU | |

NOTE: "1" indicates the most effective treatment and "2" indicates the second most effective treatment.

Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. On-site testing should be conducted to determine the most treatment and procedures for a particular project. See product literature for additional application and product information.

TEST METHODS: Graffiti Resistance

This evaluation compares the effectiveness of graffiti control treatments in preventing staining of enamel spray paint and permanent markers.

Spray paint and markers were applied as graffiti agents to the treated surfaces five days after application of Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15. Removal of the graffiti agents was attempted 24 hours after application of the graffiti agents, using Enviro Klean® SafStrip® 8 and Defacer Eraser® Graffiti Remover.

Chemical cleaners were evaluated using the following procedure:

1. Apply the product to a dry surface, soiled with graffiti.
2. Allow appropriate dwell time:
 - SafStrip® 8..... 30 minutes
 - Graffiti Remover 5 minutes
3. Rinse thoroughly until water runs clear. *
4. Allow the surface to dry thoroughly and visually examine to determine effectiveness.

***Pressure Rinsing Equipment** – Masonry washing equipment generating approximately 700-800 psi with a water flow rate of 8 gallons per minute delivered through a 45-degree fan spray tip was used for rinsing.

TEST RESULTS: Graffiti Resistance

| Smooth-face "Snow" CMU | | | | | |
|-----------------------------------|-----------|--------------|-------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 20% | 50% | 50% | 50% | 43% |
| Graffiti Remover | 50% | 50% | 50% | 50% | 50% |
| Blok-Guard® & Graffiti Control 15 | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 70% | 100% | 100% | 90% | 90% |
| Graffiti Remover | 90% | 100% | 100% | 90% | 95% |

| Smooth-face "Parchment" CMU | | | | | |
|-----------------------------------|-----------|--------------|-------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 20% | 50% | 50% | 50% | 43% |
| Graffiti Remover | 50% | 50% | 50% | 50% | 50% |
| Blok-Guard® & Graffiti Control 15 | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 70% | 100% | 100% | 95% | 91% |
| Graffiti Remover | 90% | 98% | 98% | 90% | 94% |

| Smooth-face "Terra Cotta" CMU | | | | | |
|-----------------------------------|-----------|--------------|-------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 20% | 60% | 60% | 60% | 50% |
| Graffiti Remover | 50% | 50% | 50% | 50% | 50% |
| Blok-Guard® & Graffiti Control 15 | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 70% | 100% | 100% | 90% | 90% |
| Graffiti Remover | 90% | 100% | 100% | 90% | 95% |

TEST RESULTS: Graffiti Resistance (cont.)

| Smooth-face "Slate" CMU | | | | | |
|--|------------------|---------------------|--------------------|-------------------|-----------------------|
| Untreated Control | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 50% | 70% | 70% | 70% | 65% |
| Graffiti Remover | 30% | 60% | 60% | 60% | 53% |
| Blok-Guard® & Graffiti Control 15 | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 70% | 100% | 100% | 90% | 90% |
| Graffiti Remover | 80% | 100% | 100% | 90% | 93% |

| Split-face "Snow" CMU | | | | | |
|--|------------------|---------------------|--------------------|-------------------|-----------------------|
| Untreated Control | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 20% | 50% | 50% | 50% | 43% |
| Graffiti Remover | 40% | 50% | 50% | 50% | 48% |
| Blok-Guard® & Graffiti Control 15 | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 60% | 100% | 100% | 90% | 88% |
| Graffiti Remover | 80% | 100% | 100% | 90% | 93% |

| Split-face "Parchment" CMU | | | | | |
|--|------------------|---------------------|--------------------|-------------------|-----------------------|
| Untreated Control | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 20% | 70% | 50% | 70% | 53% |
| Graffiti Remover | 20% | 50% | 50% | 50% | 43% |
| Blok-Guard® & Graffiti Control 15 | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 60% | 100% | 100% | 98% | 90% |
| Graffiti Remover | 80% | 100% | 100% | 98% | 95% |

TEST RESULTS: Graffiti Resistance (cont.)

| Split-face "Terra Cotta" CMU | | | | | |
|-----------------------------------|-----------|--------------|-------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 20% | 80% | 50% | 60% | 53% |
| Graffiti Remover | 20% | 80% | 50% | 50% | 50% |
| Blok-Guard® & Graffiti Control 15 | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 60% | 100% | 100% | 100% | 90% |
| Graffiti Remover | 80% | 100% | 100% | 100% | 95% |

| Split-face "Slate" CMU | | | | | |
|-----------------------------------|-----------|--------------|-------------|------------|----------------|
| Untreated Control | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 20% | 80% | 80% | 50% | 58% |
| Graffiti Remover | 20% | 50% | 50% | 50% | 43% |
| Blok-Guard® & Graffiti Control 15 | Red Paint | Black Marker | Blue Marker | Red Marker | % Avg. Removal |
| SafStrip® 8 | 60% | 100% | 100% | 100% | 90% |
| Graffiti Remover | 80% | 100% | 100% | 100% | 95% |

CONCLUSIONS: Graffiti Resistance

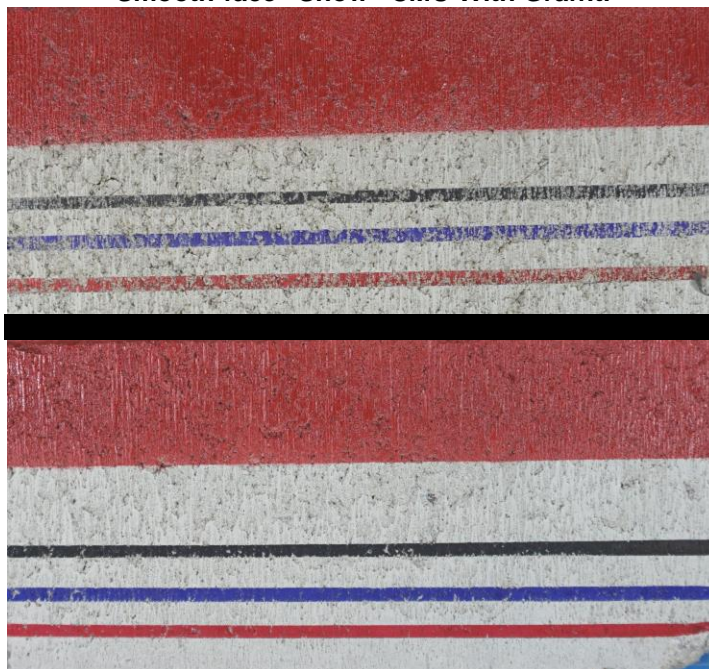
Based upon laboratory evaluations, graffiti removal was improved when the submitted CMUs were treated with Sure Klean® Weather Seal Blok-Guard® & Graffiti Control 15.

PHOTOGRAPHS: Graffiti Resistance

Smooth-face "Snow" CMU With Graffiti

**Blok-Guard® &
Graffiti Control
15**

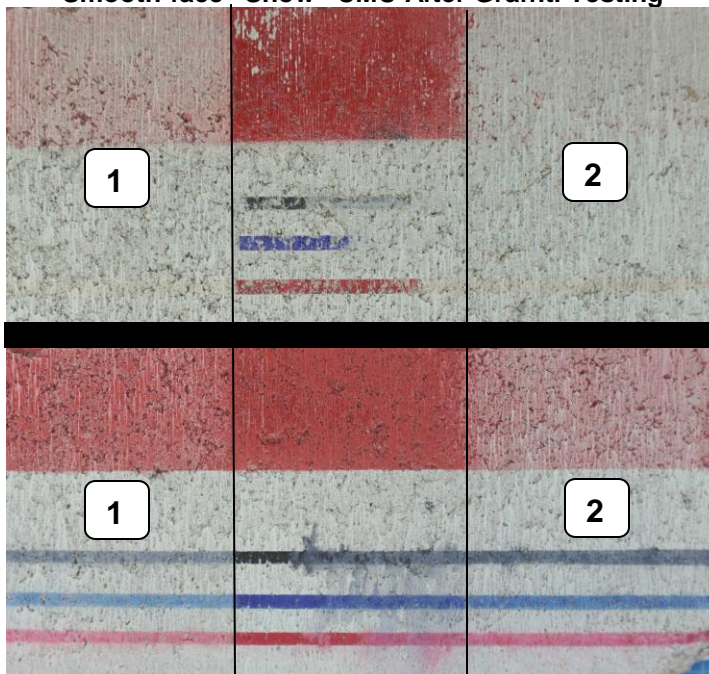
**Untreated
Control**



Smooth-face "Snow" CMU After Graffiti Testing

**Blok-Guard® &
Graffiti Control
15**

**Untreated
Control**



KEY

1 = SafStrip® 8

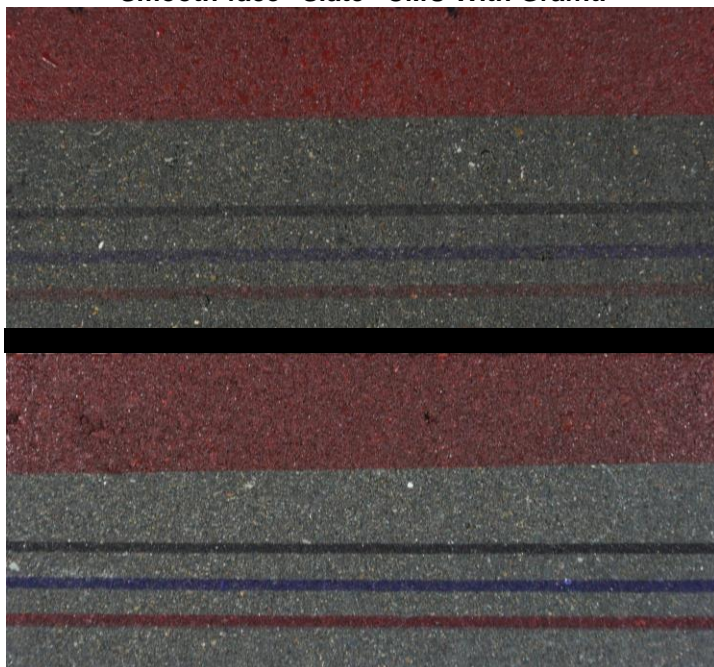
2 = Graffiti Remover

PHOTOGRAPHS: Graffiti Resistance (cont.)

Smooth-face "Slate" CMU With Graffiti

**Blok-Guard® &
Graffiti Control
15**

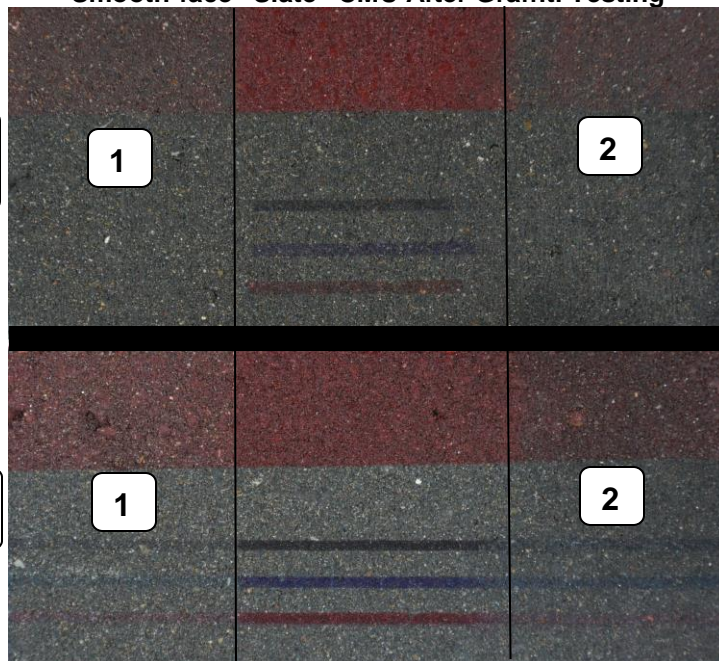
**Untreated
Control**



Smooth-face "Slate" CMU After Graffiti Testing

**Blok-Guard® &
Graffiti Control
15**

**Untreated
Control**



KEY

1 = SafStrip® 8

2 = Graffiti Remover

PHOTOGRAPHS: Graffiti Resistance (cont.)

Split-face "Parchment" CMU With Graffiti

**Blok-Guard® &
Graffiti Control
15**



**Untreated
Control**



Split-face "Parchment" CMU After Graffiti Testing

**Blok-Guard® &
Graffiti Control
15**



**Untreated
Control**



KEY

1 = SafStrip® 8

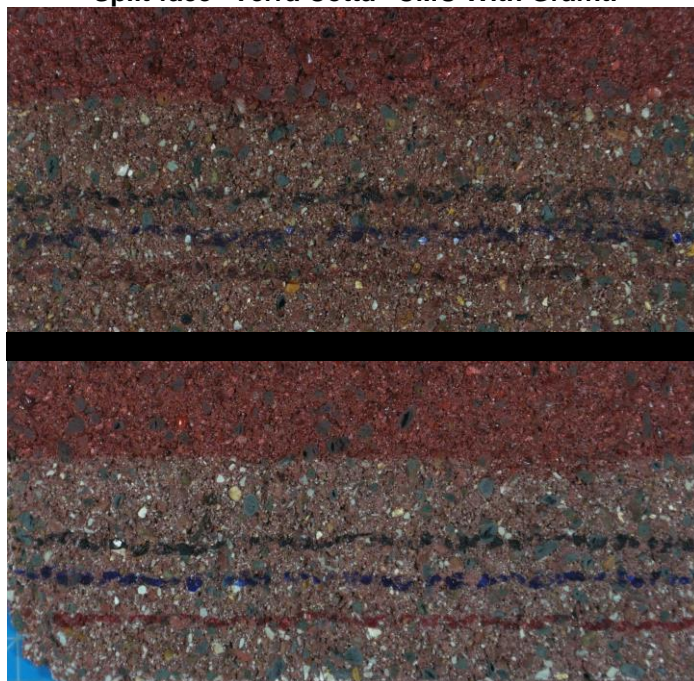
2 = Graffiti Remover

PHOTOGRAPHS: Graffiti Resistance (cont.)

Split-face "Terra Cotta" CMU With Graffiti

**Blok-Guard® &
Graffiti Control
15**

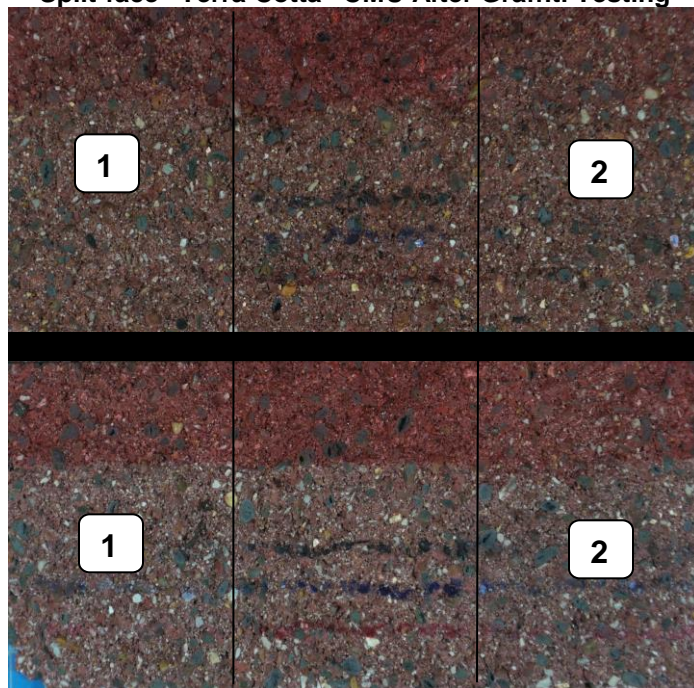
**Untreated
Control**



Split-face "Terra Cotta" CMU After Graffiti Testing

**Blok-Guard® &
Graffiti Control
15**

**Untreated
Control**



KEY

1 = SafStrip® 8

2 = Graffiti Remover

RECOMMENDATIONS: Graffiti Control

Recommendations for graffiti control for each CMU submitted by Midwest Block & Brick, Bridgeton, MO are provided in the chart below. Recommendations are based on the treatment(s) that proved most effective on average for providing graffiti repellency and the product that was most effective on average at removing the graffiti on all types submitted.

| Sample | Graffiti Repellents | Graffiti Removers |
|-------------------------------|--|---|
| Smooth-face "Snow" CMU | Sure Klean® Weather Seal Blok-Guard® & Graffiti Control Ultra 15 (Recommended if moderate color enhancement is desired) | ² Enviro Klean® SafStrip® 8 OR ¹ Defacer Eraser® Graffiti Remover |
| Smooth-face "Parchment" CMU | | |
| Smooth-face "Terra Cotta" CMU | | |
| Smooth-face "Slate" CMU | | |
| Split-face "Snow" CMU | | |
| Split-face "Parchment" CMU | | |
| Split-face "Terra Cotta" CMU | | |
| Split-face "Slate" CMU | | |

NOTE: "1" indicates the most effective remover and "2" indicates the second most effective remover.

Apply all products in accordance with the manufacturer's recommendation provided on container labels and product data sheets. Because the severity of graffiti varies from location to location, on-site testing should be conducted to determine the most appropriate graffiti control product and procedure for a particular project.



J. Lucas Comadoll
Project Testing Technician

ALL SAMPLES SUPPLIED FOR THE ABOVE EVALUATION WILL BE DISPOSED OF THIRTY (30) DAYS AFTER THE ISSUE DATE OF THIS REPORT. IF SAMPLES ARE TO BE RETAINED FOR ADDITIONAL TESTING OR RETURNED TO THE SENDER, PROVIDE WRITTEN INSTRUCTIONS TO THE LABORATORY WITHIN THIRTY (30) DAYS OF THE ISSUE DATE OF THIS REPORT.

Recommendations made within this report are based on laboratory test applications and observations. Final determination of the suitability of a product and/or procedure should be made only after thorough job testing on actual surfaces.